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=> fil reg
FILE 'REGISTRY' ENTERED AT 15:59:22 ON 24 JUL 2006
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
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=> d his

     (FILE 'HOME' ENTERED AT 14:26:04 ON 24 JUL 2006)

     FILE 'HCAPLUS' ENTERED AT 14:26:17 ON 24 JUL 2006
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L1            1 S E3
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L3              STR
L4            0 S L3
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L6            5 S L5
L7              STR L5
L8            5 S L7
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L10          14 S L2 AND L9

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L18           0 S L16


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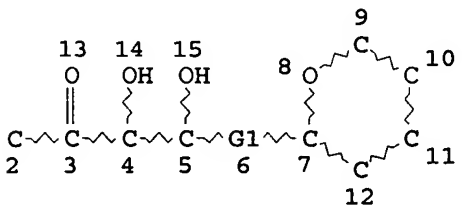

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GGCAT IS SAT AT 19
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DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS 20

STEREO ATTRIBUTES: NONE
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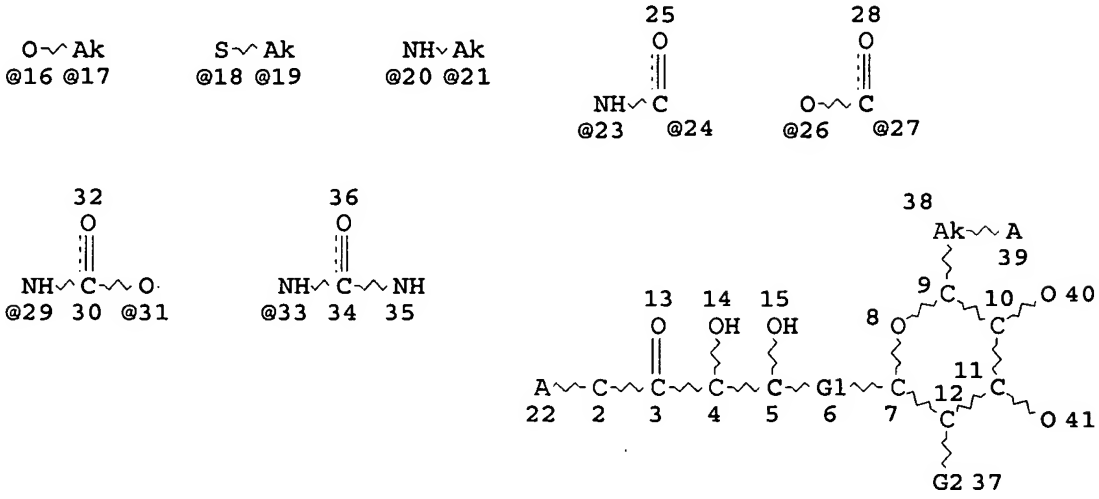

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DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
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NUMBER OF NODES IS 40

STEREO ATTRIBUTES: NONE
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SEARCH TIME: 00.00.01

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FILE 'HCAPLUS' ENTERED AT 16:00:42 ON 24 JUL 2006
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

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L17 ANSWER 1 OF 7 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2004:333730 HCAPLUS
DOCUMENT NUMBER: 140:332537
TITLE: Glucose-based compounds with affinity to P-selectin
INVENTOR(S): Appeldoorn, Chantal Catharina Maria; Biessen, Erik Anna Leonardus; Molenaar, Thomas Jacobus Maria; Van Berkel, Theodorus Josephus Cornelis
PATENT ASSIGNEE(S): Yamanouchi Europe B.V., Neth.
SOURCE: PCT Int. Appl., 28 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004033473	A1	20040422	WO 2003-EP11457	20031013
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
CA 2501842	AA	20040422	CA 2003-2501842	20031013
AU 2003278090	A1	20040504	AU 2003-278090	20031013
EP 1549658	A1	20050706	EP 2003-769400	20031013
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
BR 2003015231	A	20050823	BR 2003-15231	20031013
JP 2006503876	T2	20060202	JP 2004-542495	20031013
US 2005261207	A1	20051124	US 2005-530601	20050413

PRIORITY APPLN. INFO.: EP 2002-79232 A 200210 11

WO 2003-EP11457 W 200310 13

OTHER SOURCE(S): MARPAT 140:332537

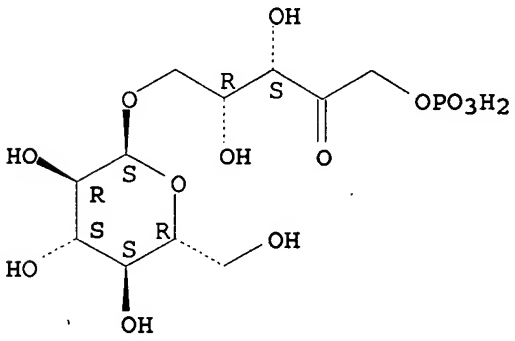
AB The invention relates to certain glucose-based compds. with affinity to P-selectin to act as antagonists or partial antagonists of P-selectin. These compds. are useful as targeting ligands with an ability to target drugs and genetic material to cells and tissues expressing P-selectin. The synthesis of glucose-based compds. and their use for the prepn. of pharmaceutical compns. for the treatment of P-selectin-assocd. disorders, the conjugates, pharmaceutical carriers and drug delivery systems comprising these compds., and a method for detg. whether a compd. is capable of binding to P-selectin are also described.

IT **681121-09-5P 681121-11-9P 681121-12-0P 681121-13-1P 681121-25-5P 681121-26-6P 681121-27-7P**
RL: BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of glucose-based compds. with affinity to P-selectin)

RN 681121-09-5 HCAPLUS

CN D-threo-2-Pentulose, 5-O-α-D-glucopyranosyl-, 1-(dihydrogen phosphate) (9CI) (CA INDEX NAME)

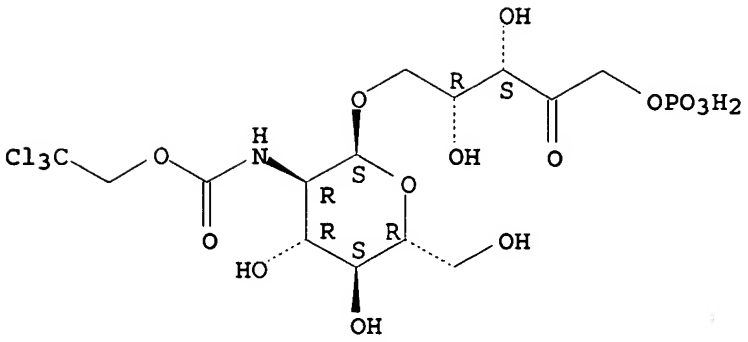
Absolute stereochemistry.



RN 681121-11-9 HCAPLUS

CN D-threo-2-Pentulose, 5-O-[2-deoxy-2-[[(2,2,2-trichloroethoxy)carbonyl]amino]-α-D-glucopyranosyl]-, 1-(dihydrogen phosphate) (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 681121-12-0 HCAPLUS
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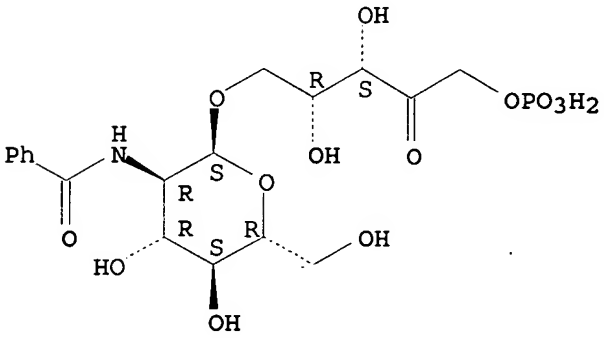
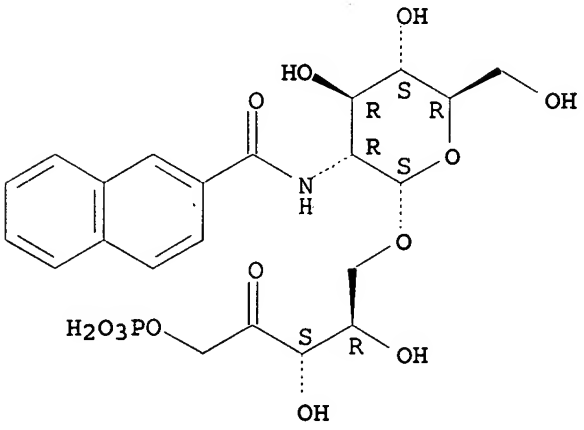
Absolute stereochemistry.



RN 681121-13-1 HCAPLUS
CN D-threo-2-Pentulose, 5-O-[2-deoxy-2-[(2-naphthalenylcarbonyl)amino]-α-D-glucopyranosyl]-, 1-(dihydrogen phosphate) (9CI) (CA INDEX NAME)

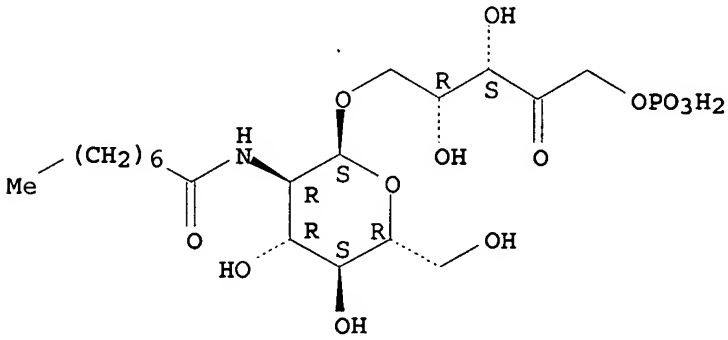
Absolute stereochemistry.



RN 681121-25-5 HCAPLUS

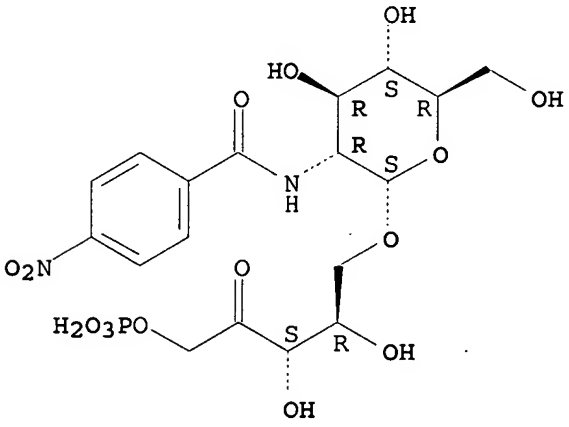
CN D-threo-2-Pentulose, 5-O-[2-deoxy-2-[(1-oxooctyl)amino]-α-D-glucopyranosyl]-, 1-(dihydrogen phosphate) (9CI) (CA INDEX NAME)

Absolute stereochemistry.



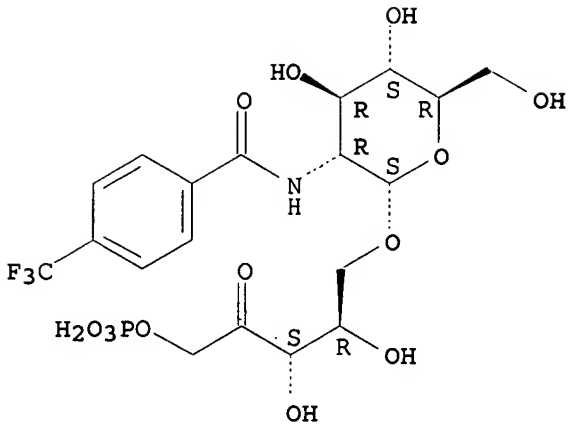
RN 681121-26-6 HCAPLUS
CN D-threo-2-Pentulose, 5-O-[2-deoxy-2-[(4-nitrobenzoyl)amino]-α-D-glucopyranosyl]-, 1-(dihydrogen phosphate) (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 681121-27-7 HCAPLUS
CN D-threo-2-Pentulose, 5-O-[2-deoxy-2-[[4-(trifluoromethyl)benzoyl]amino]-α-D-glucopyranosyl]-, 1-(dihydrogen phosphate) (9CI) (CA INDEX NAME)

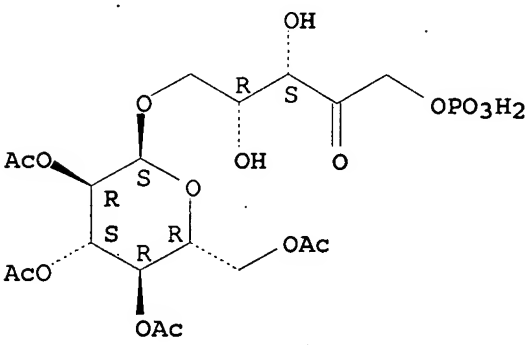
Absolute stereochemistry.



IT **681121-10-8P 681121-19-7P 681121-20-0P**
681121-21-1P 681121-22-2P 681121-23-3P
681121-24-4P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(prepn. of glucose-based compds. with affinity to P-selectin)

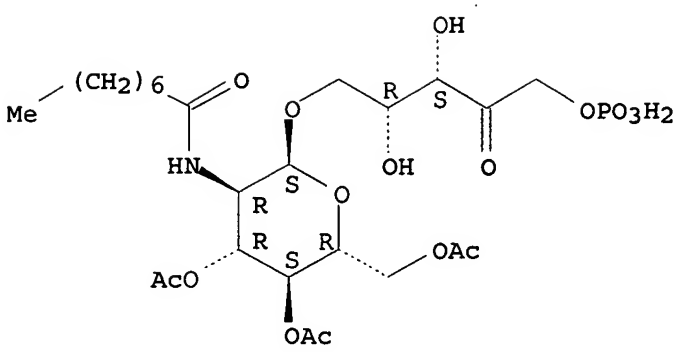
RN 681121-10-8 HCAPLUS
CN D-threo-2-Pentulose, 5-O-(2,3,4,6-tetra-O-acetyl-α-D-glucopyranosyl)-, 1-(dihydrogen phosphate) (9CI) (CA INDEX NAME)

Absolute stereochemistry.



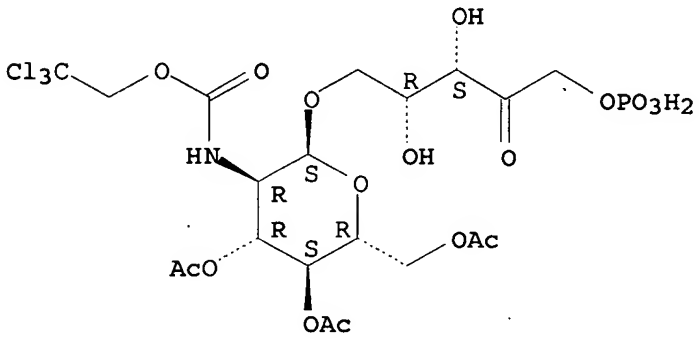
RN 681121-19-7 HCAPLUS
CN D-threo-2-Pentulose, 5-O-[3,4,6-tri-O-acetyl-2-deoxy-2-[(1-oxooctyl)amino]-α-D-glucopyranosyl]-, 1-(dihydrogen phosphate) (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 681121-20-0 HCAPLUS
CN D-threo-2-Pentulose, 5-O-[3,4,6-tri-O-acetyl-2-deoxy-2-[[(2,2,2-trichloroethoxy)carbonyl]amino]-α-D-glucopyranosyl]-, 1-(dihydrogen phosphate) (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 681121-21-1 HCAPLUS
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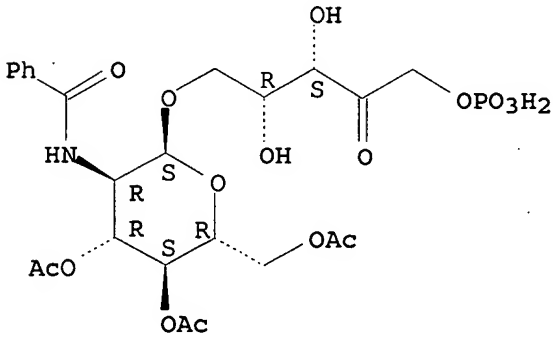
Absolute stereochemistry.



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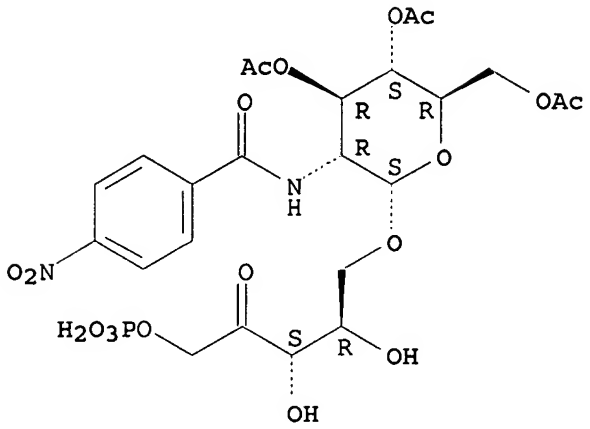
phosphate) (9CI) (CA INDEX NAME)

Absolute stereochemistry.



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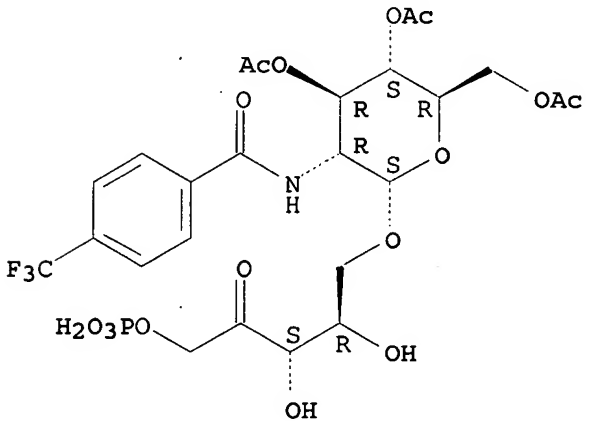
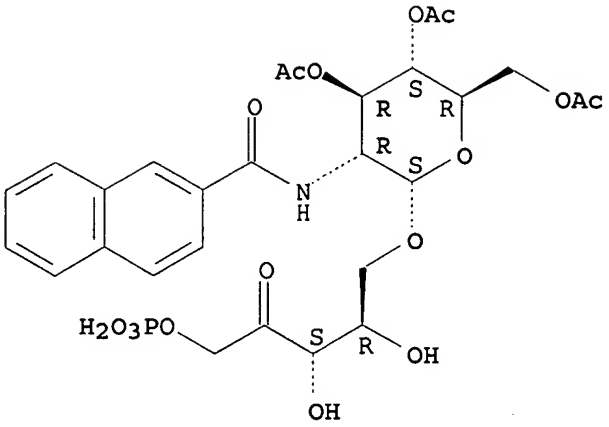
Absolute stereochemistry.



RN 681121-24-4 HCAPLUS
CN D-threo-2-Pentulose, 5-O-[3,4,6-tri-O-acetyl-2-deoxy-2-[(2-naphthalenylcarbonyl)amino]-α-D-glucopyranosyl]-, 1-(dihydrogen phosphate) (9CI) (CA INDEX NAME)

Absolute stereochemistry.



IC ICM C07H015-04
ICS A61K031-70; A61P029-00
CC 1-12 (Pharmacology)
Section cross-reference(s): 33, 63
IT **681121-09-5P 681121-11-9P 681121-12-0P**
681121-13-1P 681121-25-5P 681121-26-6P
681121-27-7P
RL: BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of glucose-based compds. with affinity to P-selectin)
IT 39698-55-0P 97562-23-7P 131474-49-2P 151557-75-4P
681121-10-8P 681121-14-2P 681121-15-3P 681121-16-4P
681121-17-5P 681121-18-6P **681121-19-7P**
681121-20-0P 681121-21-1P 681121-22-2P
681121-23-3P 681121-24-4P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(prepn. of glucose-based compds. with affinity to P-selectin)
REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L17 ANSWER 2 OF 7 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1999:521766 HCAPLUS
DOCUMENT NUMBER: 131:306669
TITLE: Selectin/Glycoconjugate Binding Assays for the Identification and Optimization of Selectin Antagonists
AUTHOR(S): Weitz-Schmidt, Gabriele; Gong, Ke Wei; Wong, Chi-Huey
CORPORATE SOURCE: Transplantation Research, Novartis Pharma A.G., Basel, CH-4002, Switz.
SOURCE: Analytical Biochemistry (1999), 273(1), 81-88
CODEN: ANBCA2; ISSN: 0003-2697
PUBLISHER: Academic Press
DOCUMENT TYPE: Journal
LANGUAGE: English
AB In this study we describe ELISA-type P- and L-selectin binding assays for the anal. of selectin antagonists. A biotinylated polyacrylamide-type glycoconjugate contg. sialyl Lewis A (sLea-polymer) is utilized as a synthetic ligand for both selectins

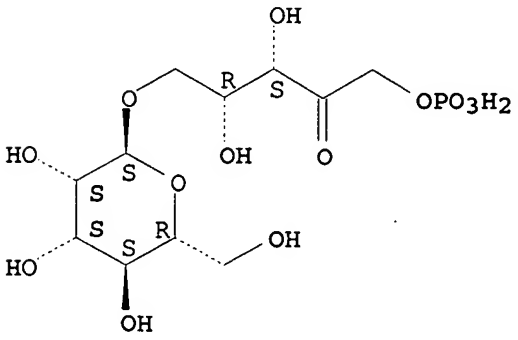
analogous to the E-selectin assay we have developed recently. Following precomplexation of sLea-polymer with streptavidin-peroxidase, the complex is added to microtiter plates coated with the recombinant selectins. Binding of sLea-polymer to the immobilized selectins is measured by the peroxidase reaction. SLea-polymer was found to bind to P- and L-selectin in a cation-dependent manner. The interaction of the polymer was blocked by neutralizing anti-P- and anti-L-selectin antibody, resp. The ref. compds. heparin and fucoidan inhibited binding in both assays. Sialyl Lewis X (sLex) blocked binding to L-selectin by 46% at 3 mM, whereas no inhibition was obsd. in the P-selectin assay up to 3 mM. Control polymers contg. sialic acid or β-d-glucose instead of sLea weakly bound or failed to bind to the selectins. Both assays are rapid to perform and of low variability. The P-selectin assay was successfully employed to identify and optimize novel carbohydrate-based P-selectin antagonists. The P-, L-, and E-selectin assays were used to det. the fine selectivity of several sLex-related selectin antagonists. These studies together suggest that sLea-polymer-based selectin assays are well suited for primary screening and the characterization of selectin antagonists. (c) 1999 Academic Press.

IT **194980-01-3**, FM 233
RL: ANT (Analyte); ANST (Analytical study)
(selectin/glycoconjugate binding assays for identification and optimization of selectin antagonists)

RN 194980-01-3 HCAPLUS

CN D-threo-2-Pentulose, 5-O-α-D-mannopyranosyl-, 1-(dihydrogen phosphate) (9CI) (CA INDEX NAME)

Absolute stereochemistry.



CC 1-1 (Pharmacology)
Section cross-reference(s): 15

IT **194980-01-3**, FM 233
RL: ANT (Analyte); ANST (Analytical study)
(selectin/glycoconjugate binding assays for identification and optimization of selectin antagonists)

REFERENCE COUNT: 22 THERE ARE 22 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L17 ANSWER 3 OF 7 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1999:235765 HCAPLUS
DOCUMENT NUMBER: 130:296935
TITLE: Synthesis of sialyl Lewis x mimetics as selectin inhibitors by enzymic aldol condensation

reactions

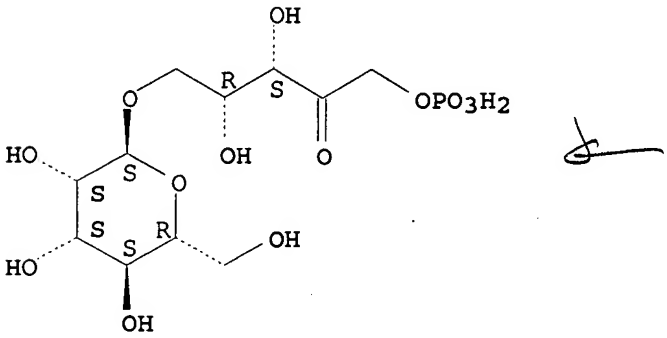
AUTHOR(S): Lin, Chun-Cheng; Moris-Varas, Francisco; Weitz-Schmidt, Gabriel; Wong, Chi-Huey
CORPORATE SOURCE: Department of Chemistry and Skaggs Institute of Chemical Biology, The Scripps Research Institute, La Jolla, CA, 92037, USA
SOURCE: Bioorganic & Medicinal Chemistry (1999), 7(3), 425-433
CODEN: BMECEP; ISSN: 0968-0896
PUBLISHER: Elsevier Science Ltd.
DOCUMENT TYPE: Journal
LANGUAGE: English

AB Sialic acids were prepd. as antiinflammatory agents and E-, L-, and P-selectin inhibitors. Several D-mannosyl phosphate/phosphonate derivs. have been enzymically prepd. as sialyl Lewis x tetrasaccharide mimics, which showed strong-to-moderate inhibition against E-, P-, and L-selectins. The synthesis of these mimics is very straightforward; mannosyl aldehyde derivs. are condensed with dihydroxyacetone phosphate (DHAP) in the presence of a DHAP-dependent aldolase to provide mannosyl phosphates.

IT **194980-01-3**
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study)
(synthesis of sialyl Lewis x mimetics as selectin inhibitors by enzymic aldol condensation reactions)

RN 194980-01-3 HCAPLUS
CN D-threo-2-Pentulose, 5-O-α-D-mannopyranosyl-, 1-(dihydrogen phosphate) (9CI) (CA INDEX NAME)

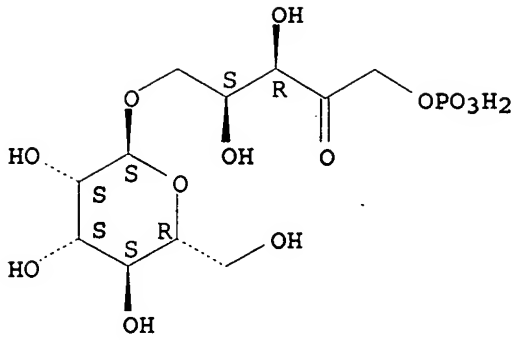
Absolute stereochemistry.



IT **223121-83-3P 223121-90-2P 223121-97-9P**
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(synthesis of sialyl Lewis x mimetics as selectin inhibitors by enzymic aldol condensation reactions)

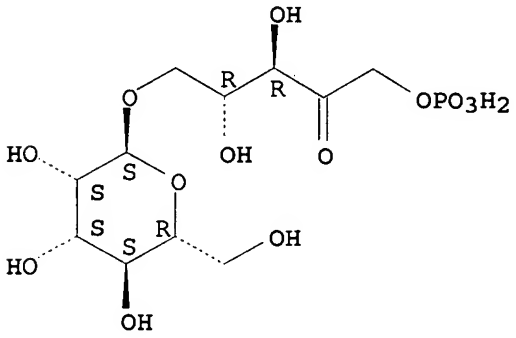
RN 223121-83-3 HCAPLUS
CN L-threo-2-Pentulose, 5-O-α-D-mannopyranosyl-, 1-(dihydrogen phosphate) (9CI) (CA INDEX NAME)

Absolute stereochemistry.



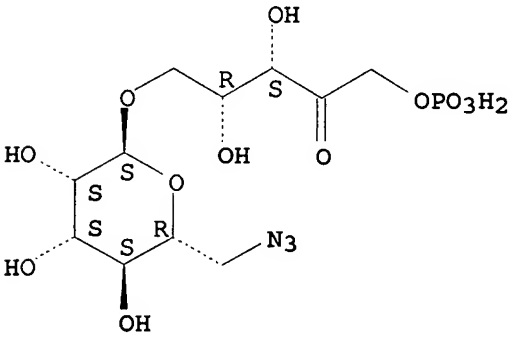
RN 223121-90-2 HCAPLUS
CN D-erythro-2-Pentulose, 5-O-α-D-mannopyranosyl-, 1-(dihydrogen phosphate) (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 223121-97-9 HCAPLUS
CN D-threo-2-Pentulose, 5-O-(6-azido-6-deoxy-α-D-mannopyranosyl)-, 1-(dihydrogen phosphate) (9CI) (CA INDEX NAME)

Absolute stereochemistry.



CC 33-8 (Carbohydrates)
Section cross-reference(s): 1, 15
IT **194980-01-3** 194980-02-4
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study)

(synthesis of sialyl Lewis x mimetics as selectin inhibitors by enzymic aldol condensation reactions)

IT **223121-83-3P 223121-90-2P 223121-97-9P**
223122-03-0P 223122-14-3P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(synthesis of sialyl Lewis x mimetics as selectin inhibitors by enzymic aldol condensation reactions)

REFERENCE COUNT: 44 THERE ARE 44 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L17 ANSWER 4 OF 7 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1998:293511 HCAPLUS
DOCUMENT NUMBER: 129:4814
TITLE: Preparation of sialyl Lewis X mimetics as E-selectrin inhibitors
INVENTOR(S): Wong, Chi-huey; Moris-Varas, Francisco; Lin, Chun-cheng; Marron, Thomas G.; Woltering, Thomas; Weitz-Shmidt, Gabriele; Jablonowski, Jill
PATENT ASSIGNEE(S): Novartis A.-G., Switz.; Scripps Research Institute
SOURCE: PCT Int. Appl., 53 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9818805	A2	19980507	WO 1997-EP5909	19971027
WO 9818805	A3	20030417		
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW				
RW: GH, KE, LS, MW, SD, SZ, UG, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
US 5830871	A	19981103	US 1996-744744	19961028
US 5837862	A	19981117	US 1996-764315	19961212
AU 9853137	A1	19980522	AU 1998-53137	19971027
PRIORITY APPLN. INFO.:			US 1996-744744 A	19961028

US 1996-764315 A 199612 12

US 1997-896452 A 199707 18

WO 1997-EP5909 W 199710 27

OTHER SOURCE(S): MARPAT 129:4814

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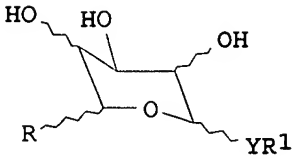

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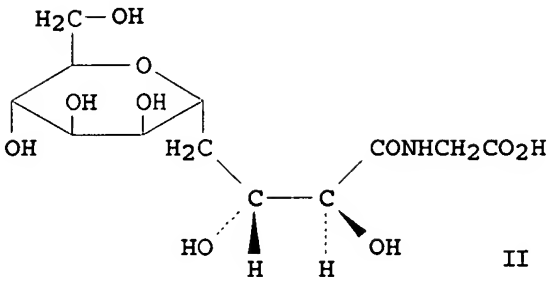


II

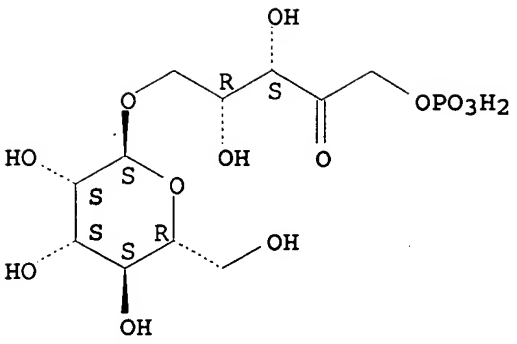
AB Sialyl Lewis X mimetics which mimic the inhibition of selectin-mediated cellular adhesion by sialyl Lewis X having a core of formula [(I); R = Me, OH, carboxylate-contg. sugar residue; Y = alkene; R1 = OH, NH2, amide, amino acid] were prepd. Thus, compds. such as II were prepd. and tested for ability to block the adhesion of HL-60 cells to immobilized sol-E-selectin. Compds. of formula I showed inhibition at 3mM of 70-80%, or IC50 values from 0.1-0.2mM.

IT **194980-01-3P**
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); IMF (Industrial manufacture); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of sialyl Lewis X mimetics as E-selectrin inhibitors)

RN 194980-01-3 HCAPLUS

CN D-threo-2-Pentulose, 5-O-α-D-mannopyranosyl-, 1-(dihydrogen phosphate) (9CI) (CA INDEX NAME)

Absolute stereochemistry.



IC ICM C07H015-00
CC 33-8 (Carbohydrates)
Section cross-reference(s): 34, 63
IT 186532-53-6P 186532-55-8P 186532-57-0P 186532-59-2P
186532-61-6P **194980-01-3P** 194980-09-1P 194980-12-6P
194980-14-8P 204458-84-4P 204458-85-5P 204458-87-7P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); IMF (Industrial manufacture); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of sialyl Lewis X mimetics as E-selectrin inhibitors)

L17 ANSWER 5 OF 7 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1998:163599 HCAPLUS
DOCUMENT NUMBER: 128:230633
TITLE: Preparation of sialyl Lewis x mimetics as E-selectin inhibitors
INVENTOR(S): Wong, Chi-Huey; Lin, Chun-Cheng; Woltering, Thomas J.; Marron, Thomas G.; Moris-Varas, Francisco; Jablonowski, Jill; Weitz-Schmidt, Gabriele
PATENT ASSIGNEE(S): Novartis A.-G., Switz.; Scripps Research Institute; Wong, Chi-Huey; Lin, Chun-Cheng; Woltering, Thomas J.; Marron, Thomas G.; Moris-Varas, Francisco; Jablonowski, Jill; Weitz-Schmidt, Gabriele
SOURCE: PCT Int. Appl., 70 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9808854	A2	19980305	WO 1997-EP4649	19970826
WO 9808854	A3	19980820		

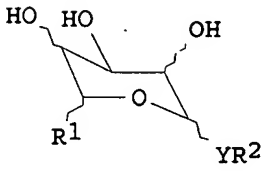
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU,

TJ, TM
RW: GH, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG

US 5830871	A	19981103	US 1996-744744	19961028
US 5837862	A	19981117	US 1996-764315	19961212
AU 9747004	A1	19980319	AU 1997-47004	19970826
PRIORITY APPLN. INFO.:			US 1996-24556P P	19960826
			US 1996-744744 A	19961028
			US 1996-764315 A	19961212
			WO 1997-EP4649 W	19970826

OTHER SOURCE(S): MARPAT 128:230633

GI



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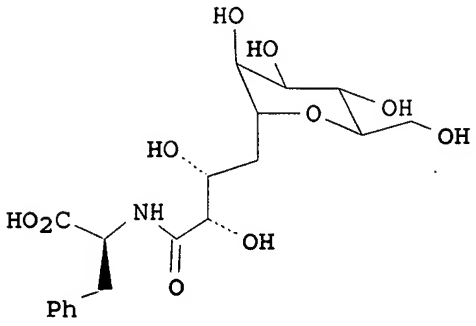


II

AB Sialyl Lewis X mimetics which mimic the inhibition of selectin-mediated cellular adhesion by sialyl Lewis X having a core of formula I (R1 = Me, OH, carboxylate-contg. sugar residue; Y = alkylene; R2 = hydroxy, amine, amide, amino acid) were prepd. Thus, II was prepd. and tested for ability to block the adhesion of HL-60 cells to immobilized sol-E-selectin (IC50 = 0.1-0.2 mM).

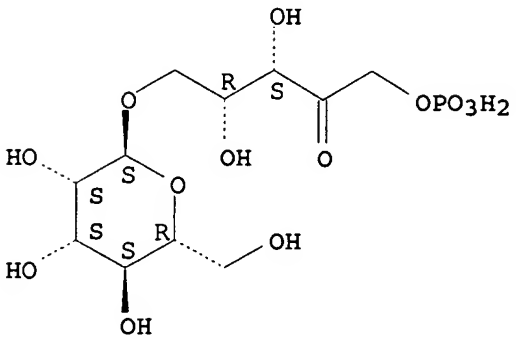
IT **194980-01-3P**
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(prepn. of sialyl Lewis x mimetics as E-selectin inhibitors)

RN 194980-01-3 HCAPLUS

CN D-threo-2-Pentulose, 5-O-α-D-mannopyranosyl-, 1-(dihydrogen

phosphate) (9CI) (CA INDEX NAME)

Absolute stereochemistry.



IC ICM C07H015-00
CC 33-8 (Carbohydrates)
Section cross-reference(s): 15, 34
IT 185753-18-8P 186532-53-6P 186532-55-8P 186532-57-0P
186532-59-2P 186532-61-6P 186585-85-3P **194980-01-3P**
194980-02-4P 194980-09-1P 194980-12-6P 204458-75-3P
204458-76-4P 204458-78-6P 204458-80-0P 204458-84-4P
204458-85-5P 204458-87-7P 204458-89-9P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(prepn. of sialyl Lewis x mimetics as E-selectin inhibitors)

L17 ANSWER 6 OF 7 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1997:667131 HCAPLUS
DOCUMENT NUMBER: 127:229196
TITLE: Small Molecules as Structural and Functional Mimics of Sialyl Lewis X in Selectin Inhibition: A Remarkable Enhancement of Inhibition by Additional Negative Charge and/or Hydrophobic Group
AUTHOR(S): Wong, Chi-Huey; Moris-Varas, Francisco; Hung, Shang-Cheng; Marron, Thomas G.; Lin, Chun-Cheng; Gong, Ke Wei; Weitz-Schmidt, Gabriele
CORPORATE SOURCE: Department of Chemistry, Scripps Research Institute, La Jolla, CA, 92037, USA
SOURCE: Journal of the American Chemical Society (1997), 119(35), 8152-8158
CODEN: JACSAT; ISSN: 0002-7863
PUBLISHER: American Chemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 127:229196
AB Several sialyl Lewis X (SLex) mimics that contain the essential functional groups for receptor interaction and a neg. charge or a hydrophobic group have been developed as inhibitors of E-, P-, and L-selectins. Some of the mimics exhibit selectin inhibition activities 103-104-fold more potent than does the natural ligand tetrasaccharide, with IC50 in the low micromolar to high nanomolar range. The syntheses of these mimics are relatively simple, using TMSOTf-Ac2O mediated C-glycosylation with concurrent selective deprotection of the primary benzyl group and enzymic aldol addn.

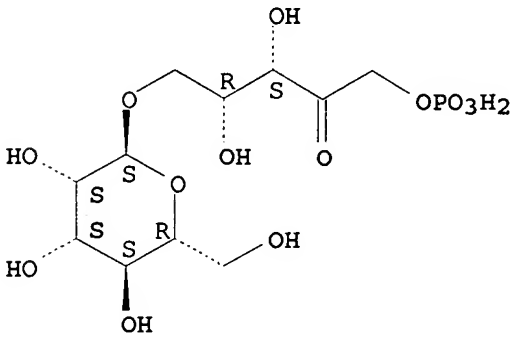
reactions as key steps.

IT **194980-01-3P**
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); PRP (Properties); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(small mols. as structural and functional mimics of sialyl Lewis x in selectin inhibition in relation to addnl. neg. charge and/or hydrophobic Group)

RN 194980-01-3 HCAPLUS

CN D-threo-2-Pentulose, 5-O-α-D-mannopyranosyl-, 1-(dihydrogen phosphate) (9CI) (CA INDEX NAME)

Absolute stereochemistry.

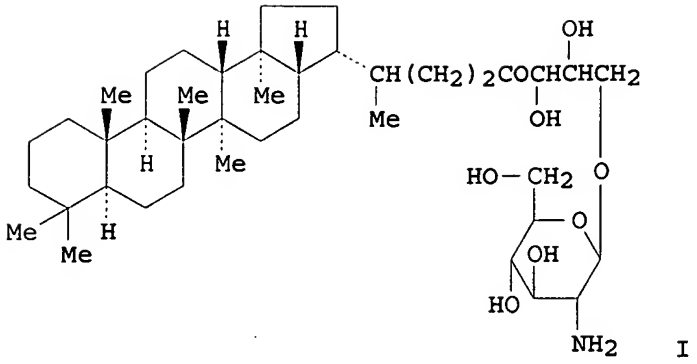


CC 1-3 (Pharmacology)
Section cross-reference(s): 33

IT 186532-57-0P **194980-01-3P** 194980-02-4P 194980-09-1P 194980-12-6P 194980-14-8P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); PRP (Properties); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(small mols. as structural and functional mimics of sialyl Lewis x in selectin inhibition in relation to addnl. neg. charge and/or hydrophobic Group)

REFERENCE COUNT: 32 THERE ARE 32 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L17 ANSWER 7 OF 7 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1989:570752 HCAPLUS
DOCUMENT NUMBER: 111:170752
TITLE: Prokaryotic triterpenoids. A novel hopanoid from the ethanol-producing bacterium Zymomonas mobilis
AUTHOR(S): Flesch, Gerard; Rohmer, Michel
CORPORATE SOURCE: Ec. Natl. Super. Chim. Mulhouse, Mulhouse, 68093, Fr.
SOURCE: Biochemical Journal (1989), 262(2), 673-5
CODEN: BIJOAK; ISSN: 0306-3275
DOCUMENT TYPE: Journal
LANGUAGE: English
GI



I

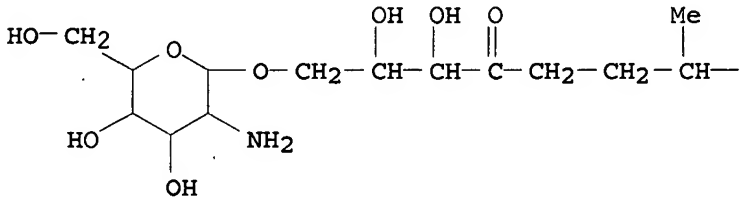
AB Among the triterpenoids of Z. mobilis, a novel hopanoid (I), 32-oxabacteriohopane-33,34,35-triol β-linked via its primary hydroxy group to glucosamine, was isolated as a minor compd.

IT **123167-01-1**
RL: BIOL (Biological study)
(from Zymomonas mobilis)

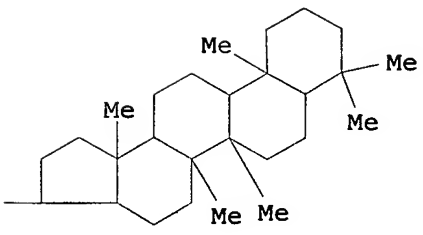
RN 123167-01-1 HCAPLUS

CN 4-Octanone, 1-[(2-amino-2-deoxy-β-D-glucopyranosyl)oxy]-2,3-dihydroxy-7-[(21α)-A'-neo-22,29,30-trinorgammaceran-21-yl]-, [2S-(2R*,3R*,7S*)]- (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 1-B



CC 10-1 (Microbial Biochemistry)
Section cross-reference(s): 30

IT **123167-01-1**
RL: BIOL (Biological study)
(from Zymomonas mobilis)

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